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Patent Intranet > Classification Home Page > Classification Search Page >

Classification Schedule [Site Feedback](#)

[Search Classification Data](#) | [Class Numbers & Titles](#) | [Class Numbers](#) | [USPC Index](#) | [International](#) | [HELP](#) | [Employee by Name](#) | [Employees by Org](#)

[<-Previous Page](#)

## **Class 141 FLUENT MATERIAL HANDLING, WITH RECEIVER OR RECEIVER COACTING MEANS**

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- 1 PROCESSES**
- 1.1 . Battery grid pasting
- 2 . Filling dispensers
- 3 .. Aerosol or gas-charged type
- 4 . Gas or variation of gaseous condition in receiver
- 5 .. With filling with fluent non-gaseous materials
- 6 ... Counter-pressure type
- 7 ... With evacuation of container
- 8 .. Vacuum
- 9 . Plural materials
- 10 . Bag filling
- 11 . With material treatment
- 12 .. Compacting
- 13 MODIFICATION OF FILLING CYCLE IN STARTING AND STOPPING**
- 14 SIPHON BOTTLE CHARGING ARRANGEMENTS**
- 15 . For receiver with diverse filling opening
- 16 . With plural heads, stations or materials
- 17 . With gas capsule supporting or manipulating means
- 18 FILLING OR REFILLING OF DISPENSERS**
- 19 . With cutter or punch for gas pressure cartridge
- 20 . Aerosols
- 20.5 . Coating-implement-type receiver
- 21 . By operation of means causing or controlling dispensing
- 22 .. Removable dispenser is supply container closure
- 23 ... Expansible chamber dispenser
- 24 .... Resilient wall
- 25 .. Expansible chamber of fluid pressure applying or controlling means
- 26 ... Dispenser carried expansible chamber pump
- 27 ... Container with follower
- 28 ... Container mounted jet pump
- 29 . Closure type with manually controlled vent
- 31 CAPILLARY TYPE**
- 32 BATTERY GRID PASTING**
- 33 . Separate sources applied to opposite sides
- 34 CENTRIFUGAL FILLING**
- 35 PLURAL CONNECTED RECEIVERS FILLED BY SERIAL FLOW**
- 36 . Succeeding receiver advanced to filling position
- 37 DIVERSE FLUID CONTAINING PRESSURE FILLING SYSTEMS INVOLVING RECEIVER GAS CONTENT MODIFICATION**
- 38 . Tire inflation
- 39 . Filling means controlled by gas condition in receiver
- 40 .. Control by level in filled receiver
- 41 ... Air pump external to flow line
- 42 .... Float controlled vacuum line cut-off
- 43 ..... Vacuum line vented to atmosphere

<u>44</u>	. Gas and other material separating passage or chamber
<u>45</u>	.. Material returned to supply
<u>46</u>	. System fluid used in seal or in valve or lift operation
<u>47</u>	. Gas control or supply varied, shifted or supplemented during cycle
<u>48</u>	.. Gas cycle for pre-treatment of receiver or contents material
<u>49</u>	.. Plural or diverse gassing and/or filling cycles
<u>50</u>	.. Shifted to vent or fill pipe
<u>51</u>	. Gas condition control in housing for receiver
<u>52</u>	. With separate storage of gas displaced from receiver
<u>53</u>	.. With receiver vent to measuring trap
<u>54</u>	. With plural diverse passages for gas to receiver or head
<u>55</u>	.. Vent to drain fill pipe
<u>56</u>	.. Three or more
<u>57</u>	.. Receiver vented to atmosphere before separation (e.g., snift)
<u>58</u>	... Constant bleed
<u>59</u>	. Filling with exhausting the receiver
<u>60</u>	.. Receiver coupling comprises movable pump element
<u>61</u>	.. Vacuum cut-off before filling
<u>62</u>	. With lateral travel of registering head and receiver
<u>63</u>	. Gas treatment
<u>64</u>	.. Of filled receiver
<u>65</u>	<b>EVACUATION APPARATUS</b>
<u>66</u>	. With filling with gas
<u>67</u>	<b>FLUENT CHARGE IMPELLED OR FLUID CURRENT CONVEYED INTO RECEIVER</b>
<u>68</u>	. Valve bag type
<u>69</u>	<b>WITH MATERIAL TREATMENT</b>
<u>70</u>	. With fluid contact (e.g., jetting)
<u>71</u>	. Compacting
<u>72</u>	.. Agitation of head and receiver
<u>73</u>	.. Compacting material in receiver
<u>74</u>	... Agitation
<u>75</u>	.... Of suspended receiver
<u>76</u>	..... Valve bag chair
<u>77</u>	.... With distortion of or impact on receiver side walls
<u>78</u>	.... Agitating means associated with receiver conveyer
<u>79</u>	..... Rotary conveyer
<u>80</u>	... In filled receiver
<u>81</u>	.. With contraction of trap to form charge
<u>82</u>	. Heating or cooling
<u>83</u>	<b>WITH TESTING OR WEIGHING RECEIVER CONTENT</b>
<u>84</u>	<b>CONVERTIBLE</b>
<u>85</u>	<b>WITH SOIL REMOVING, COATING, LUBRICATING, STERILIZING AND/OR DRYING</b>
<u>86</u>	. Drip collection
<u>87</u>	.. Collector shiftable to non-use position
<u>88</u>	.. Collector associated with receiver support
<u>89</u>	. With cleaning, coating or drying means
<u>90</u>	.. Nozzle cleaner
<u>91</u>	.. Treatment by fluids
<u>92</u>	... Pre-treatment of receiver
<u>93</u>	. Suction hoods and off-takes
<u>94</u>	<b>WITH SIGNAL, INDICATOR, RECORDER, INSPECTION MEANS OR EXHIBITOR</b>
<u>95</u>	. Level or pressure in receiver
<u>96</u>	.. Hose nozzle or faucet mounted
<u>97</u>	<b>WITH GUARD OR SCREEN FOR OPERATOR</b>
<u>98</u>	<b>COMBINED</b>
<u>99</u>	<b>PLURAL DIVERSE FILLING LINES</b>
<u>100</u>	<b>PLURAL MATERIALS, MATERIAL SUPPLIES OR CHARGES IN A RECEIVER</b>

<u>101</u>	. Lateral travel of registering head and receiver
<u>102</u>	. Plural charges from the same source
<u>103</u>	. Separate stations for a single receiver
<u>104</u>	. Selectively utilized sources
<u>105</u>	. With common discharge
<u>106</u>	.. Dumping or draining
<u>107</u>	.. With mingling in or successive path through trap
<u>108</u>	<b>SCOOP TYPE FILLER WITH ASSOCIATED RECEIVER</b>
<u>109</u>	. Receiver within scoop or inserter
<u>110</u>	<b>ABSORPTION AND/OR IMMERSION</b>
<u>111</u>	. With handling means for receiver
<u>112</u>	. Receiver secured to supply closure
<u>113</u>	<b>RECEIVER FILLED THROUGH BOTTOM OR WHILE INVERTED</b>
<u>114</u>	<b>WITH MANIPULATION OF FLEXIBLE OR COLLAPSIBLE RECEIVER OR SUPPLY</b>
<u>115</u>	<b>DRIP PREVENTION BY FLOW REVERSING AND/OR OVERFILL REMOVAL</b>
<u>116</u>	. By means reversing direction of flow
<u>117</u>	.. Expanding chamber in disengaged head
<u>118</u>	.. By tilting receiver and adjoined filler
<u>119</u>	.. Interconnected supply valve cut-off and vacuum control
<u>120</u>	.. Siphonic return to supply
<u>121</u>	. Separate removal station
<u>122</u>	.. With subsequent filling
<u>123</u>	.. Combined displacement receptacle and vacuum means
<u>124</u>	.. Receiver tilting or inverting means
<u>125</u>	.. Wiping, scraping or spatulating means (e.g., trimming)
<u>126</u>	. Simultaneous filling and removing
<u>127</u>	.. Double acting or plural pumps
<u>128</u>	<b>DRIBBLE OR REDUCED FLOW AT END OF CYCLE</b>
<u>129</u>	<b>WITH CONVEYING MEANS TO SUPPLY SUCCESSIVE RECEIVERS</b>
<u>130</u>	. Sampler type
<u>131</u>	. Continuous flow type
<u>132</u>	.. Receivers with overlapping flanges or apertured shields
<u>133</u>	.. Receiver carrier forms moving support for supply
<u>134</u>	.. With spaced receivers and redirected flow
<u>135</u>	. With lateral motion of registering head and receiver
<u>136</u>	.. Bodily lifted or swinging siphon filling means
<u>137</u>	.. Laterally reciprocating head or trap
<u>138</u>	.. Interrupted or irregular cycle
<u>139</u>	... Automatic control by contents material
<u>140</u>	... No can - no fill
<u>141</u>	.... Power control by receiver
<u>142</u>	.... Cam track switching
<u>143</u>	.... Vertical axis trigger
<u>144</u>	.. Rotary set of heads
<u>145</u>	... Common vertical axis for conveyer
<u>146</u>	.... With vertically reciprocating plunger or valve piston for each head
<u>147</u>	.... With cam or abutment operated valve or head
<u>148</u>	.... With lift means for receiver
<u>149</u>	.... With additional cushion or yielding lift
<u>150</u>	.... Cam lift or lowered movement
<u>151</u>	.... Manually placed receivers
<u>152</u>	.... Adjustable to receiver size
<u>153</u>	. Automatic control of filling cycle by contents material
<u>154</u>	. Receiver with asymmetrical or flap closed inlet
<u>155</u>	. Safety-stop or non-operating interlock between supply and conveyers
<u>156</u>	. Fill triggered by receiver
<u>157</u>	.. Individual receiver controls the filling cycle therefor
<u>158</u>	... Charge-forming prevention or charge disposal

<u>159</u>	... Power control by receiver
<u>160</u>	.... Servo-system
<u>161</u>	.... Clutch control
<u>162</u>	... Power derived from lateral motion of receiver
<u>163</u>	. Horizontal axis conveyer
<u>164</u>	. Receiver supported on side during filling
<u>165</u>	. With relatively movable receiver grip or centering means
<u>166</u>	.. Bag type receiver
<u>167</u>	. With variable rate of receiver travel in cycle
<u>168</u>	. Conveyer with additional receiver conveying or manipulating means
<u>169</u>	.. Plural receiver lines to or from single
<u>170</u>	.. Lateral shift at filling station between parallel receiver paths
<u>171</u>	.. With change in receiver orientation
<u>172</u>	.. With lifting or lowering means for receiver for filling
<u>173</u>	.. With receiver dispenser
<u>174</u>	... Cup-type dispenser
<u>175</u>	... Reciprocating discharge means and receiver guideway
<u>176</u>	.. Conveyer with relatively movable receiver discharge means
<u>177</u>	. Nozzle, guide or conveyer adjustable to receiver size
<u>178</u>	. Successive groups or non-sequential filling of a receiver series
<u>179</u>	.. From a single uniform line of receivers
<u>180</u>	. Continuously moving conveyer with receiver stop
<u>181</u>	. With head, manifold or supply lowering means
<u>182</u>	.. Separate movable or removable sleeve or funnel supply terminal
<u>183</u>	. With interconnected contents discharge means
<u>184</u>	.. With predetermined number of cycles
<u>185</u>	... Single group filled by rows
<u>186</u>	.. Plural lines
<u>187</u>	.. With contents gripping or penetrating discharge means
<u>188</u>	.. With valve period adjustment
<u>189</u>	.. By contact with conveyer projection
<u>190</u>	.. Ratchet drive for conveyer
<u>191</u>	.. Cam and gear drives
<u>192</u>	<b>AUTOMATIC CONTROL OF FLOW CUTOFF OR DIVERSION</b>
<u>193</u>	. Responsive to relative recession of supply means and receiver engaging means
<u>194</u>	.. Ejection or release of filled receiver
<u>195</u>	.. Discharge assistant control by filled receiver
<u>196</u>	. Control by test receiver or chamber or by filled preceding receiver
<u>197</u>	. In gas filled receivers
<u>198</u>	. Level or overflow responsive
<u>199</u>	.. Funnel type closed by float
<u>200</u>	... Valve latched in open position
<u>201</u>	... Normally open with closed position holding means
<u>202</u>	... Plural series valves
<u>203</u>	... Valve stem accessible at top of funnel
<u>204</u>	.... Single valve and float stem
<u>205</u>	... Pivoted valve
<u>206</u>	.. Manually initiated valve with both manual and level cut-off controls
<u>207</u>	... With receiver positioned interlock
<u>208</u>	... With nozzle dislodgment valve trip means
<u>209</u>	... Manual control disabler or disconnect
<u>210</u>	... Separate controls for plural series liquid flow line valves
<u>211</u>	.... Self-opening valve
<u>212</u>	..... Float initiates closing control
<u>213</u>	..... Float arm operated valve
<u>214</u>	..... Pressure initiated closing control
<u>215</u>	..... Liquid back pressure completes closing
<u>216</u>	.... Float operated valve

<u>217</u>	... Diverse controls for single valve
<u>218</u>	.... Valve latched open
<u>219</u>	..... Electromagnetic trip
<u>220</u>	..... Float controlled trip means
<u>221</u>	..... With sensitivity or level adjustment
<u>222</u>	..... Adjustable receiver engaging or coacting means
<u>223</u>	..... With spring means biasing valve to close
<u>224</u>	..... Reciprocating valve
<u>225</u>	.... Air displacement trip means
<u>226</u>	..... By response to receiver pressure increase
<u>227</u>	.. External initiator as second diverse control
<u>228</u>	... Series flow line valves
<u>229</u>	.... Float control cut-off
<u>230</u>	<b>WITH SIPHON FLOW CONTROL BY EQUALIZED LEVELS</b>
<u>231</u>	<b>PORTABLE SYSTEMS OR TRACK MOUNTED SUPPLY MEANS</b>
<u>232</u>	. Track mounted
<u>233</u>	.. Track on receiver supporting means
<u>234</u>	<b>PLURAL FILLING MEANS</b>
<u>235</u>	. Adjustable lateral spacing of heads or receivers
<u>236</u>	. Diverse flow manifold
<u>237</u>	. For plural receivers simultaneously filled
<u>238</u>	.. Supply apportioned prior to delivery
<u>239</u>	... Tilting tray or trough means
<u>240</u>	... Grid or cellular insert type divider
<u>241</u>	... Inverted for discharge to receivers
<u>242</u>	.. With discharge means
<u>243</u>	... With means for selective operation
<u>244</u>	... Manifold or divider
<u>245</u>	.... Displacement type
<u>246</u>	.. With receiver ejecting and/or accommodating means
<u>247</u>	. Aids to manual filling
<u>248</u>	. Alternating
<u>249</u>	<b>WITH CHARGE FORMING MEANS CONTRACTING TRANSVERSELY TO FLOW PATH</b>
<u>250</u>	<b>WITH MEANS TO MOVE SUPPLY MEANS AND/OR RECEIVER TO, FROM OR DURING FLOW RELATION</b>
<u>251</u>	. Relatively receding discharge assistant and receiver engaging means
<u>252</u>	.. With external form for receiver
<u>253</u>	.. With lift or power drive for receiver support
<u>254</u>	.. Receiver support bias varied with position of support
<u>255</u>	.. With feeder and additional flow modifier or retarder at foot of fill tube
<u>256</u>	.. Continuous feeding during filling (e.g., rotary auger)
<u>257</u>	... Receding receiver support or engaging means
<u>258</u>	.. Axially reciprocating discharge assistant
<u>259</u>	... Rotatable reciprocating discharge assistant
<u>260</u>	... Reciprocating filling tube type discharge assistant
<u>261</u>	... With synchronized intermittent supply (e.g., check valve)
<u>262</u>	... With receding receiver support
<u>263</u>	. Relatively receding filling tube and receiver engaging means
<u>264</u>	.. With flow stop or severer at foot of fill tube
<u>265</u>	. With means to separate filled receiver and internal form
<u>266</u>	. With adjustable movable component
<u>267</u>	. Unitary receiver support and flow controller
<u>268</u>	.. Rotary or oscillating
<u>269</u>	. With clamp for receiver interconnected with movable head or lift
<u>270</u>	. Both supply means and receiver support having movement
<u>271</u>	. Swinging support for receiver
<u>272</u>	.. Tilting type support for separating receiver from filling head

<u>273</u>	.. Inversion of receiver
<u>274</u>	... Receiver with gravity operated valve
<u>275</u>	. Receiver lift or lower for filling
<u>276</u>	.. With interconnected external means to control discharge
<u>277</u>	.. Fluid operated lift
<u>278</u>	.. Yielding lift
<u>279</u>	. With movable support for hose connected head or supply
<u>280</u>	. Scraping or leveling by lateral relative movement of supply means and receiver
<u>281</u>	. With means for manipulating a filled receiver for separation from head or support
<u>282</u>	.. From an external form
<u>283</u>	. With movement of receiver in horizontal plane
<u>284</u>	. Movably mounted supply
<b><u>285</u></b>	<b>MULTIPLE PASSAGE FILLING MEANS FOR DIVERSE MATERIALS OR FLOWS</b>
<u>286</u>	. With baffle, spreader, displacer, drip ring, filter or screen
<u>287</u>	. With gas expanded seal
<u>288</u>	. Adjustable outlet element controls level
<u>289</u>	. Vent laterally shiftable
<u>290</u>	. With flue or vent externally returning to supply
<u>291</u>	. With valve operated by receiver engaging means
<u>292</u>	.. Valve operator interconnected with receiver inlet engaging means
<u>293</u>	... Plural valves operated
<u>294</u>	.... With mechanical or lost motion connection
<u>295</u>	... Concentric open vent
<u>296</u>	.. Biased coaxial valve stem and nozzle
<u>297</u>	. Funnel type
<u>298</u>	.. Concentric vent forms valve stem
<u>299</u>	.. Concentric external vent
<u>300</u>	.. Vent extends along wall to top
<u>301</u>	. With valve
<u>302</u>	.. Plural valved passages
<u>303</u>	... Float operated vent cut-off
<u>304</u>	... Swingable nozzle operated liquid supply valve
<u>305</u>	... Rigidly interconnected or intergral valves
<u>306</u>	... Gravity seated inversion opened valve
<u>307</u>	.. With trap or chamber in vent passage
<u>308</u>	.. Air vent to supply cut-off by liquid in receiver
<u>309</u>	. With air inlet to liquid supply
<u>310</u>	. Passage formed by head and receiver spacing means
<b><u>311R</u></b>	<b>FILLING MEANS WITH RECEIVER OR RECEIVER COACTING MEANS</b>

<u>312</u>	. Extensible or expansible inserted coupler or centering means for receiver
<u>313</u>	. Flexible or collapsible receiver
<u>314</u>	.. With bag or liner securing means
<u>315</u>	... Valve bag clamp and/or chair
<u>316</u>	... With inserted or external form for bag
<u>317</u>	... With flow controlling means
<u>318</u>	. Filling by retracting receiver or cartridge
<u>319</u>	. Manually coupled and inverted
<u>320</u>	.. With discharge assistant, trap or valve
<u>321</u>	... Receiver operated supply discharge means or controller
<u>322</u>	... Combined supply closure and trap
<u>323</u>	. Siphon type
<u>324</u>	. Continuous flow or overflow type supply
<u>325</u>	. Receiver with plural compartments or openings (e.g., vents)
<u>326</u>	.. With means to cap or close an opening
<u>327</u>	... Receiver open at both ends
<u>328</u>	. Filling means or support provides handle for receiver
<u>329</u>	. With puncturing connecting means

- 330 .. Mounted on receiver
- 331 . Funnel type
- 332 .. With connector, guide or support for separable supply
- 333 .. Supply or flow path not concentric with receiver inlet
- 334 ... Laterally extending spout
- 335 .. Valves open when funnel rests on receiver
- 336 .. Valve closed by lifting on funnel handle
- 337 .. Flexible, collapsible or folding
- 338 ... Stored in or on receiver
- 339 .. Anti-swirl, anti-splash, cover or shield
- 340 .. With additional support
- 341 ... With nonsystem support
- 342 .... Nonuse
- 343 .... Supported on supply container
- 344 .. With valve actuator or extended stem
- 345 ... Relatively movable
- 346 . Interlocked discharge means, support and/or coupling
- 347 .. With coupling means responsive to material flow
- 348 . Supply means carried receiver flow control opening means
- 349 .. Coupling controls receiver inlet flow
- 350 ... For inlet with externally engaged flap or closure member
- 351 . Receiver actuated discharge means
- 352 .. Movable supply or head
- 353 .. Receiver coupling telescopes flow path elements
- 354 ... Mechanical or lost motion connection
- 355 ... Connection external to tube or tube sections
- 356 ... Control by contact at bottom of receiver
- 357 .. Receiver applied to plunger-type follower
- 358 .. Scoop or drawer type
- 359 .. Receiver weight operated discharge means
- 360 .. Actuator juxtaposed outlet
- 361 ... Servo-system
- 362 ... Relatively movable actuator
- 363 . Filling supply supported by receiver
- 364 .. Dumping or draining type
- 365 .. Material guide
- 366 ... Supply container hand manipulated
- 367 . Adjustable contact area or plural interchangeable or selectively usable coupling means or flow paths
- 368 . Adjustable gauge collar, displacement member or seal
- 369 . With receiver support, guide means, or shield
- 370 .. Guide or shield
- 371 ... Reciprocating guard or guide
- 372 ... Receiver neck or inlet rim engaging support
- 373 ... For movement of receiver laterally of supply outlet
- 374 .. Fill tube extending to or near bottom of receiver
- 375 .. With support for removable supply container
- 376 .. With adjustable support for supply
- 377 .. Receiver swingably supported or supported by bail
- 378 .. Plural interchangeable or selective or adjustable support for receiver
- 379 .. Nonuse position or cover
- 380 ... Receiver supported by supply container
- 381 .... Closure type
- 382 . Flexible hose terminal with receiver engaging means
- 383 . With receiver and supply securing means
- 384 .. Rotatable collar or sleeve
- 385 .. Telescoping jaws
- 386 .. Fixed flange on supply means for engagement of receiver

- 311A . Drip prevention
- 387 **FILLING HEAD SHIFTABLY OR SEPARABLY CONNECTED TO SUPPLY**
- 388 . Flexible or collapsible coupling section
- 389 .. Hand-held head
- 390 **INSERTED OR EXTERNAL FORM OR PROTECTOR**
- 391 **MATERIAL GUIDES OR SUPPLY WITH RECEIVER SUPPORTS (I.E., AIDS TO MANUAL FILLING)**
- 392 **MISCELLANEOUS (E.G., FILLING HEADS)**

#### FOREIGN ART COLLECTIONS

FOR000      **CLASS-RELATED FOREIGN DOCUMENTS**

#### DIGESTS

DIG1      **MAGNETIC**

DIG2      **FLUIDIC FLOW CONTROL VALVES**

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